UUU	UUU	EEEEEEEEEEEEE		PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
UUU	UUU	EEEEEEEEEEEEE	11111111111111	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
UUU	UUU	FFF	iii	PPP PPP
UUU	UUU	ĒĒĒ ĒĒĒ	iii	PPP PPP
UUU	UUU	ĒĒĒ	TTT	PPP PPP
UUU	UUU	EEE	III	PPP PPP
UUU	UUU	EEE	İİİ	PPP PPP
UUU	UUU	EEEEEEEEEEE	III	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP
UUU	UUU	EEEEEEEEEE	iii	PPPPPPPPPPP
UUU	UUU	EEE	iii	PPP
UUU	UUU	EEE	TTT	PPP
UUU	UUU	EEE	III	PPP
UUU	UUU	EEE	İİİ	PPP
UUU	UUU	EEE	III	PPP PPP
UUUUUUUUUU		EEEEEEEEEEEE	iii	PPP
UUUUUUUUU		EEEEEEEEEEE	iii	PPP
UUUUUUUUUU		EEEEEEEEEEEEE	İİİ	PPP

-1

Va 000 000 7F 7F 7F 7F 7F 7F 7F 7F

RRRRI RRR RR RR RR RRRRI RR RR RR RR RR	RRRR RR RR RR RR	MM MM MMM MMM MMMM MMM MM MM MM MM MM MM	\$		\$	111 1111 1111 1111 1111 11111 111111 1111	
			\$				

Page

(1)

MACRO WTTYPE STRING SWAIT TYPE .ENDM RAB=CMDORAB <STRING> WTTYPE .MACRO WFIELD STRING RAB=CMDORAB <STRING> SWAIT FIELD .ENDM

GENERAL RMS TEST PROGRAM ;

B 5

16-SEP-1984 01:45:37 VAX/VMS Macro V04-00 5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1

Page

RM VO

0000 121 0000 122 ;

```
Page
      (2)
```

RM VO

```
.MACRO STORE STRING, PRE
.SAVE
.PSECT _$RMSNAM
$$.TMPX=.
              ; store any carriage control info
                                       .ASCII %STRING%
$$.TMPX1=.-$$.TMPX
.RESTORE
                                         .ENDM STORE
                                      .MACRO BEGIN TSTNAM
STORE <TSTNAM>
MOVL #$$.TMPX,BEG_DESCR+4
MOVL #$$.TMPX1,BEG_DESCR
BSBW BEGPUT
.ENDM BEGIN
.MACRO FINISH TSTNAM
STORE <TSTNAM>
MOVL #$$.TMPX,FIN_DESCR+4
MOVL #$$.TMPX1,FIN_DESCR+4
MOVL #$$.TMPX1,FIN_DESCR
                                                                                                           ; addr
; len
                                                                                                          ; addr
; len
                                        BSBW
                                                         FINPUT
                                                         FINISH
                                        .ENDM
FIELD FLDNAM
                                         . MACRO
                                                        <FLDNAM>
#$$.TMPX,FLD_DESCR+4
#$$.TMPX1,FLD_DESCR
                                        STORE
                                        MOVL
                                                                                                           ; addr
; len
                                        MOVL
                                                        FLDPUT
FIELD
MBPT, ?L
VERBOSITY,L
                                        BSBW
                                        .ENDM
                                         .MACRO
                                       BLBC
                                        .ENDM
                                                        MBPT
              161 :
```

C 5

```
RMSTEST1
V04-000
                                                    GENERAL RMS TEST PROGRAM :
                                                                                                                                                        VAX/VMS Macro V04-00
[UETP.SRC]RMSTEST1.MAR;1
                                                                                                      EONG RMSTEST, GBL, LONG
                                                     00000000
                                                                             WTRAB:: $RAB
                                                                                          .BLKQ 100
$FAB FAC=PUT,FNM=<TST$DISK:T1FILE.DAT;1>,org=seq,rfm=vfc,-
RAT=CR,FSZ=4,MRS=100,NAM=NAMBLK,FOP=<SUP,CTG>,-
ALQ=48,DEQ=12,SHR=<PUT,GET,UPI>
$RAB FAB=T1FAB,UBF=CPYBUF,USZ=CPYBSZ,RBF=CPYBUF,MBC=4,MBF=2,-
ROP=<WBH>,RHB=RECCNT,KBF=RECCNT
                                            00000364
                                                                             RECCNT::
                             00000000 00000000
                                                                                           .LONG
                                                                                                       0.0
                                                                             TISTR:
TIS:
                                                                                                       T1L,T1S
'!4UL. RECORDS WRITTEN. RFA = !XL,!XW'
                                            00000025
                                                                                          T1L=.-T1S
                                                                             T2STR:
T2S:
                                                                                          .LONG
.ASCII
                                                                                                       T2L, T2S " RECORD # = !4UL, RHB = !4UL!/"
                                                                       187
                                                                                          .ASCII 'SIZE = !3UL, RSZ = !UW!/'
                                           41 53 20
58 21 20
20 45 40
58 21 20
0000005F
                                                                                          .ASCII ' SAVED RFA = !XL,!XW, FILE RFA = !XL,!XW'
                                                                       189
190
191
192
193
194
                                                                                          T2L=.-T2S
46 41 21 27 3D 20 44 52 4F 43 45 52
2F 21 27
                                                                                          .LONG
                                                                                                       T3L, T3S
"RECORD = '!AF'!/"
                                                                       195
196 RHBSW:
                                                                                          T3L=.-T3S
.BYTE 1
                                                                                                                                             ; switch for modifying rhb contents
```

Page

16-SEP-1984 01:45:37 VAX/VMS Macro V04-00 5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1

		0586 0586 0586	244 : test			
		0584 0584 0584	246 4 247 4 248	re-read access	file created in test 1a via \$get and \$find.	a and try random and sequential
FD6F CF	01000000 8F FD7C CF 02	058 058 050 08 050 050	249 250 251 252 253	SWAIT TYPE BISL2 BISB2 SOPEN	RAB=CMDORAB <beginning #fab\$m_get,t1fab+fab\$b="" #fab\$m_nam,t1fab+fab\$l="" \$0="" -="" 1b="" fab="T1FAB,ERR=REPORT_EF</td" test=""><td>GET AND \$FIND> FOP FAC</td></beginning>	GET AND \$FIND> FOP FAC
	F9EE'	30 060 061	254 255 2 256	BSBW	FAB=T1FAB,ERR=REPORT_ER	RROR
		061 061 061 061	2 259 :	ntually	include code here to ver	rify file attributes.\
04 AB	00010000 8F	DO 0617	261	MOVL SCONNEC		11); locate mode REPORT_ERROR
	1E AB 02 59 03E8 8F 5A 57	30 0620 90 0620 30 0630 04 0630 0630 0630	264 265 266 267 268 269 ;	BSBW MOVB MOVZWL CLRL CLRL	#RAB\$C_RFA,RAB\$B_RAC(R1#1000,R9 R10 R7	
FFF2 59	58 06C5 FFF6 8F 0A 59 0A	0638 0638 30 0638 30 0643 00 0643 0644 0644	273	SUBL BSBW ACBW MOVL	#8,R8 GETANDCHK #10,#-10,R9,T1BL00P1 #10,R9	; move to previous rfa ; start with record # 10
FFF2 59	06B7 58 08 0A 03DE 8F	30 0640 C0 0640 30 0657 0657	279 T1BL00P	2: BSBW ADDL ACBW	GETANDCHK #8,R8 #990,#10,R9,T1BL00P2	; move to next rfa
	43 57 00	E2 065/ 065/	285 286 287	BBSS SWAIT	#0,R7,T1BDONE	; branch if 2nd pass
	59 03DE 8F 9A	3C 0697 11 0691	288 289 290 291 T1BDONE	TYPE MOVZWL BRB	<pass 0.k.="" 1=""> #990.R9 T1BL00P1</pass>	; start with rec # 990
	F90F'	3C 0697 11 0697 06A 06A 06A 06A 06D	281 282 283 284 285 286 287 288 289 290 291 T1BDONE 292 293 294 295	SWAIT TYPE SCLOSE BSBW	CMDORAB <pass 2="" o.k.=""> FAB=T1FAB,ERR=REPORT_ER ERR</pass>	RROR

F 5

RM Sy

RMSTEST1 V04-000

VAX/VMS Macro V04-00 [UETP.SRC]RMSTEST1.MAR;1

```
test 1c
                                                              use update to modify records created in test la
                                                                                <START TEST 1C - SUPDATE>
#FAB$M_UPD,T1FAB+FAB$B_FAC
FAB=T1FAB,ERR=REPORT_ERROR
                                                                     WTTYPE
              FC48 CF
                                                                     BISB2
SOPEN
                                                                     BSBW CLRW SCONNECT
                        F8BA
02 AB
                                                                                RABSW_ISI(R11)
RAB=R11,ERR=REPORT_ERROR
                                    30
90
00
00
04
                                                                               #RABSC_RFA, RABSB_RAC(R11)
                          F8A5
                                                                     BSBW
                            02
0A
CF
57
                 1E AB
                                                                     MOVB
                                                                     MOVAL
                                                                                                                   ; start at record 10
                                                                                RFATBL, R8
                     F8DE
               58
                                                                     CLRL
                                                                                                                   ; get single record
                                                         T18L00P4:
                                                                                GETANDCHK
RECCNT
                                   306E940C65
                                                                     BSBW
                                                                     INCL
                                                                                                                     modify rhb
       FD34 CF
                                                                     MNEGB
BLSS
CLRL
                                                                                RHBSW, RHBSW
                                                                                                                   ; toggle rhb modify flag
                            AB
AB
AB
85
54
                                                                                RAB$L_RHB(R11)
RAB$L_RBF(R11),R5
RAB$W_RSZ(R11),R4
                                                                                                                   ; don't modify rhb (default)
; get record addr
; and len
; modify record contents
                                                                     MOVL
                                                         10$:
                                                                     MOVZWL
                                                          20$:
                                                                     INCB
                                                                                R4,20$
RAB=R11,ERR=REPORT_ERROR
                        FB
                                                                     SOBGTR
                      C59 F865
                                                                     SUPDATE
                                    30
DE
CO
30
                                                                     BSBW
                            CF
08
8F
          2C AB
                                                                     MOVAL
                                                                                RECCNT, RAB$L_RHB(R11)
                                                                                                                      restore rhb addr
                                                                                                                   ; bump to next rfa entry
; modify every 10th record
                                                                     ADDL
                                                                                #8,R8
#1000,#10,R9,T1BL00P4
                     58
03E8
FFBD 59
                                                              now reread the modified file and check that every 10th (and only every 10th) record has been correctly modified
                     F894
                            CF
59
                                    DE 04 90
                                                                                RFATBL, R8
                                                                     MOVAL
                                                                     CLRL
                                                                                                                      reset record #
                 1E AB
                                                                                #RAB$C_SEQ,RAB$B_RAC(R11)
                                                                     Sdisconnect
                                                                                            r11
                                                                     bsbw
                                                                                err
                                                                     $connect
                                                                                            r11
                                                                                                                   ; do an effective rewind
                                                                     bsbw
                                                                                err
                                                                     $REWIND RAB=R11, ERR=REPORT_ERROR; so do a rewind
                          F837'
                                    30
                                                                     BSBW
```

SA SR

30

F7C6'

The 86 The 78 69

Ma

RM: VA

Phi Col Pai Syl Pai Syl Psi Cri Asi

----\$ 10 10

MA

The

```
test 2 -
                                                                                          random i/o test for sequential file org
                                                                        test 2a
                                                                       create a known test file of 1000 records of fixed length = 49. bytes. 1st longword has the record # (n) followed by 45 bytes of the ascii character (n mod 42) + 48.
                                                            WTTYPE <START TEST 2A - RANDOM SEQ 1/0>
                                                                  T2SETUP:
                                                                               CLRW RABSW_ISI(R11)

MOVAL CPYBUF,RABSL_RBF(R11)

MOVZBW #49,RABSW_RSZ(R11)

MOVAL T1FAB,R10

MOVZBL #48,FABSL_ALQ(R10)

BICL2 #FABSM_NAM,FABSL_FOP(R10)

CLRB FABSB_FAC(R10)

MOVB #FABSC_FIX,FABSB_RFM(R10)

MOVB #FABSC_FIX,FABSB_RFM(R10)

MOVW #49,FABSW_MRS(R10) ; rec_Le

$RAB_STORE RAB=(R11),ROP=<LOC,UIF>

$CREATE FAB=R10,ERR=REPORT_ERROR

BSBW_ERR
                                         BEBBEAA4900
                 00000000
    28 AB
                       AB
FADB
                 10 AA
01000000
    04 AA
                                                                                                                                         check for put default
                   36
                                                                                                                                         rec len
                                                                                BSBW
                                                                                             #RMS$_SUPERSEDE,T1FAB+FAB$L_STS
FAA8 CF
                 00010631 8F
                                                                                CMPL
                                                                                BEQL
                                                                                             SUPOK
                                                                                             <STATUS WORD IS NOT SUPERSEDE, THEREFORE IT>
RAB=R11,ERR=REPORT_ERROR
                                                                                FIELD
                                                                  SUPOK:
                                                                               SCONNECT
                             F713'
                                        30
                                                                                BSBW
                                                                       pre-extend file on 1st pass, put sequentially on second pass
            1F 1E AA 8F 01
                                         50
90
                                                                                             #FAB$V_BLK,FAB$B_RAT(R10),10$; branch if pass 2
#1000,RECCNT
                                                                                BBS
                                                                                MOVZWL
       FAFF CF
                                                                                             #RABSC_KEY, RABSB_RAC(R11)
RAB=R1T, ERR=REPORT_ERROR
                                                                                MOVB
                                                08FD
090C
                                                           4223425678901
42234425678901
                                                                                $PUT
                                         30
11
90
30
                                                                                BSBW
                             F6F1
                                04
                                                090F
0911
0915
091A
091A
091A
0921
0924
092D
0932
                                                                                BRB
                                                                                             #RABSC_SEQ,RABSB_RAC(R11)
#1,RECENT
                                                                  10$:
               FADE CF
                                                                                MOVB
                                                                                MOVZWL
                                         7B
80
00
20
                                2A
30
                                                                  NXTRC2: EDIV
                                                                                             #42,RECCNT,R2,R7
#48,R7
       52
               FAD9
                                                                                                                                        compute char for record
                                                                                ADDB2
                                                                                                                                         make it ascii
00000000°EF
                        FADO
                                                                                MOVL
                                                                                             RECCNT, CPYBUF
                                                                                                                                         insert rec #
                                                                                MOVC5
                 7 6E 00
00000004 EF
                                                                                             #0,(SP),R7,#45,CPYBUF+4; fill rec with char
                                                                               SPUT
BSBW
BSBW
                                                                                             RAB=R11, ERR=REPORT_ERROR
                                         30
                                                                                             ERR
                                                                                             CHKRFA
                                                                       print message every 100 records
```

```
K 5
RMSTEST1
V04-000
                                                  GENERAL RMS TEST PROGRAM
                                                                                                                                                    VAX/VMS Macro V04-00
EUETP.SRCJRMSTEST1.MAR; 1
                                                                               test 2b
                                                                               reread file created in step 2a and try random and sequential
                                                                               access via Sget
                                                                                                   #FAB$M_PUT!FAB$M_UPD.FAB$B_FAC(R10); upd implies get access
#FAB$M_NAM,FAB$L_FOP(R10)
FAB=R10,ERR=REPORT_ERROR
                             16 AA 09
01000000 8F
                                                                                       MOVB
                                                                                       BISL2
                                                                                       SOPEN
                                                   30
                                        F629'
                                                                                       BSBW
                                                                                                   ERR
                                                                                       movl
                                                                                                   #rab$m_loc,rab$l_rop(r11)
                                                                                                   RAB=(R11),ROP=<LOC,UIF>
#RAB$C_KEY,RAB$B_RAC(R11)
RAB=R11,ERR=REPORT_ERROR
                                                                                       SRAB_STORE
                               1E AB
                                           01
                                                         09DF
09E3
09F2
09FC
09FC
09FC
09FC
09FC
09FC
04O9
                                                                                       SCONNECT
                                   03E8 8F
                                                   30
30
                                                                                                   ERR
#1000, RECCNT
                                                                                       BSBW
                    F9FC CF
                                                                                       MOVZWL
                                                                               get all records in reverse order
                                        054D
02
                                                   30
3D
                                                                    10$:
                                                                                       BSBW
                                                                                                   GTCHK2
#2,#-1,RECCNT,10$
    FFF3 F9F1 CF
                           FFFF 8F
                                                                               now get them all forward
                                   0540
03E8 8F
                                                   30
30
                                                         0A09
0A0C
0A16
0A16
0A16
0A16
0A16
0A16
0A16
0A20
0A27
0A28
0A37
0A35
0A3F
                                                                          20$:
                                                                                       BSBW
ACBW
                                                                                                   GTCHK2
#1000,#1,RECCNT,20$
    FFF3 F9E4 CF
                           01
                                                                              now get every 10th record in reverse order followed by the next 10 in sequential order
                                                                                                   #990,RECCNT
GTCHK2
#RAB$C_SEQ,RAB$B_RAC(R11)
#10,R8
RECCNT
                    F9DB CF
                                   03DE 8F
                                                                                       MOVW
                                                  B399060590
                                                                          30$:
                                                                                       BSBW
                                   AB
58
F9CD
                                                                                       MOVB
                                                                                       MOVL
                                                                          25$:
                                                                                       INCL
                                                                                                   GTCHK2
R8,25$
#RAB$C_KEY,RAB$B_RAC(R11)
#1,#-20,RECCNT,30$
                                                                                       BSBW
                                           58
01
01
                                                                                       SOBGTR
                           FFEC
                                   AB
8F
                                                                                       MOVB
    FFDE F9BB CF
                                                                                       ACBW
                                                                                       WTTYPE <PASS 1 O.K.>
```

```
RM:
```

```
L 5
RMSTEST1
V04-000
                                                 GENERAL RMS TEST PROGRAM ;
                                                                                                                                                 VAX/VMS Macro V04-00
[UETP.SRC]RMSTEST1.MAR;1
                                                                    509
511
511
513
515
516
7
                                                                              do 10 random puts, changing record contents
                                                  90
9A
00
20
                                                        0A7B
0A7E
0A84
0A8D
0A92
0A97
                                                                                                  #^A/O/,R6 ; updating character
#91,RECCNT
RECCNT,CPYBUF
#0,(SP),R6,#45,CPYBUF+4 ; change the record
             00000000 EF
                                   56
                                                                                      MOVB
                                                                                                                                      ; updating character
                                                                                      MOVZBL
                                                                         405:
                                                                                      MOVL
MOVC5
                                                                    518
519
520
521
                                                                                                  RAB=R11, ERR=REPORT_ERROR
                                                         OAA6
OAA9
OAAC
OAB6
OAB8
                                                   300 DF 50
                                                                                      BSBW
                                                                                      BSBW
                                                                                                   CHKRFA
CC F942 CF
                    0065 8F
                                                                                      ACBW
                                                                                                  #1000,#101,RECCNT,40$
                                        04EF
                                                                                      BSBW
                                                                                                  CHKMOD
                                                                                                                                       ; go verify changes
                                                         OABB
                                                         OABB
                                                         OABB
                                                                              do 10 random get/update pairs
                                                         OABB
                                                         OABB
                                                                                                  #^A/1/,R6
#91,RECCNT
RAB=R11,ERR=REPORT_ERROR
                                                                                      MOVB
                                                                                                                                       ; updating character
                                                         OABE
OAC4
                       F934 CF
                                                                                      MOVZBL
                                                                                                                                       ; starting rec #
                                                                         50$:
                                                                                      SGET
                                                  30 DE0 95
                                                         OAD3
                                                                                      BSBW
                             00000004 EF
59 2D
88
FB 59
                     58
                                                        0AD6
0AD6
0AD6
0AE25
0AF47
0AB06
0BB09
0BB09
0BB9B
0BB9B
0BB9B
0BBB9B
0BBB6
0BBC4
0BC4
0BC4
                                                                                                  CPYBUF+4,R8
                                                                                      MOVAL
                                                                                                                                       ; get addr of record char
                                                                                                  #45,R9
(R8)+
                                                                                      MOVL
                                                                         55$:
                                                                                      INCB
                                                                                                                                       ; bump contents
                                                                                      SOBGTR R9,55$
SUPDATE RAB=R11,ERR=REPORT_ERROR
                                                   30
30
30
                                        F509
03F3
                                                                                                  ERR
                                                                                      BSBW
                                                                                      BSBW
                                                                                                  CHKRFA
BE F8F4 CF
                    0065 8F
                                                                                                  #1000,#101,RECCNT,50$
                                   03E8 8F
                                                                                      ACBW
                                        04A1
                                                                   BSBW
                                                                                                  CHKMOD
                                                                                                                                       ; go verify changes
                                                                                      WTTYPE
                                                                                                  <PASS 2 O.K.>
FAB=R10,ERR=REPORT_ERROR
                                                                                      SCLOSE
                                                  30
E2
                                                                                      BSBW
BBSS
                                                                                                  ERR
                          3F 1E AA
                                                                                                  #FAB$V_BLK, FAB$B_RAT(R10), DONE
<DUPLICATE TEST WITH RECORDS NOT CROSSING BLOCK BOUNDARIES>
                                                                                      WTTYPE
                                                   31
                                        FCDB
                                                                                                  T2SETUP
                                                  90
                                           01
                                                                                                  #FAB$M_PUT,FAB$B_FAC(R10)
#RAB$C_SEQ,RAB$B_RAC(R11)
CMDORAB
                                                                         DONE:
                                                                                      MOVB
                                                                                      MOVB
SWAIT
       00000004 EF
F7A4 CF
                                                                                                  #RAB$M_WBH,RAB$L_ROP+CMDORAB
#FAB$M_NAM,T1FABFFAB$L_FOP
                             00000400
                                                                                     MOVL
BICL2
                                                                          BUT FIRST -- TEST 3
```

<T1FILE.DAT HAS BEEN ERASED>

#FAB\$M CTG.FAB\$L FOP+T1FAB; for 'f' test <SEQUENTIAL TESTS>

TYPE

BISL2

FINISH

F678 CF

00100000 8F

68

04

OD05

6E

VO

```
N 5
                         GENERAL RMS TEST PROGRAM ;
                                                                                      16-SEP-1984 01:45:37 VAX/VMS Macro V04-00 5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1
                                                                                                                                                                       (16)
                                           subroutine to read in a record
                                                 GETANDCHK:
                                                                        #6,(R8),RAB$W_RFA(R11); rfa to rab
R7,PASS2; branch if pa
RAB=R11,ERR=REPORT_ERROR; get via rfa
10 AB
               15 57
                                MOVC3
                                                                                                           : rfa to rab
: branch if pass 2
                                                            BLBS
SGET
                          30
10
05
                                                            BSBW
BSBB
                                                                        ERR
                                                                        CHKREC
                                                            RSB
                                                PASS2:
                          90
                   02
                                                            MOVB
$FIND
                                                                        #RAB$C_RFA, RAB$B_RAC(R11)
RAB=R1T, ERR=REPORT_ERROR
       1E AB
                F2C7
00
0A
                          30
90
DD
                                                             BSBW
                                                                        ERR
       1E AB
                                                                        #RAB$C_SEQ,RAB$B_RAC(R11); switch back to sequential
                                                             MOVB
                                                             PUSHL
                                                                                                            ; loop count
                                                T1BL00P3:
                                                            SGET
BSBW
BSBB
INCL
                                                                        RAB=R11, ERR=REPORT_ERROR
                F2AF'
                          30
10
05
05
05
05
                                                                        ERR
                   0B
59
6E
0A
8E
                                                                         CHKREC
          59<sup>E7</sup>
                                                                                                            ; bump record count
                                                                        (SP), T1BL00P3
#10,R9
(SP)+
                                                            SOBGTR
SUBL2
TSTL
                                                                                                            ; restore record count
                                                                                                            ; clean up stack
                                                             RSB
```

RMSTEST1 V04-000

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VAX/VMS Macro V04-00 [UETP.SRC]RMSTEST1.MAR;1

```
handle errors
                                                          BADRFA: FIELD
                                                                                        <RFA>
                                          11
                                  46
                                                                                        ERROR
                                                ODA9
                                                                BADRHB: FIELD
                                                                                        <RHB>
                                  2F
                                          11
                                                                                        ERROR
                                                                BADRSZ: FIELD
                                                                                        <RSZ>
                                  18
                                          11
                                                                                        ERROR
                                                                            BRB
                                                                BADRBF: FIELD
                                                                                        <RBF>
                                  01
                                          11
                                                                            BRB
                                                                                        ERROR
                                                ODEE
                                                                DONT:
ERROR:
                                          05
                                                ODEE
                                                                            RSB
                F8 00000000 'EF
                                          E9
                                                                                        VERBOSITY, DONT
RAB=CMDORAB
                                                                            BLBC
                                                                            SWAIT
                                                                            BICL2 #RAB$M_ASY,RAB$L_ROP+CMDORAB
$FAO_S T2STR,CMDORAB+RAB$W_RSZ,FAOBUF,-
R9,RECCNT,R6,RAB$W_RSZ(R11),-
(R8),4(R8),RAB$W_RFA(R11),RAB$W_RFA+4(R11)
             00000004'EF
                                  01
                                          CA
                    00000000°EF
                                                                            BLBC
00000028'EF
                                                                                        CMDBUF, CMDORAB+RAB$L_RBF
RAB=CMDORAB, ERR=REPORT_ERROR
                                                                            MOVAB
                                                                            SPUT
                                          30
30
                             F1A5
                                                                            BSBW
                                                                           MOVZWL RAB$W_RSZ(R11),RO
$FAO_S T3STR,CMDORAB+RAB$W_RSZ,FAOBUF,-
RO,RAB$L_RBF(R11)
BLBC RO,.
                      50
                              FF 50
                                         E9
                                                                            SPUT
                                                                                        RAB=CMDORAB, ERR=REPORT_ERROR
                                                                            BSBW
RSB
                               F16C'
                                                                    output a message
                                                                           $WAIT RAB=WTRAB; wait on different rab for i/o to complete $FAO S T1STR, CMDORAB+RAB$W_RSZ, FAOBUF, RECCNT, RAB$W_RFA(R11), -
RAB$W_RFA+4(R11)
BLBC RO..
                                                                TYPRFA: BLBC
                50 00000000°EF
                                         E9
                    00000000 EF
00000028'EF
                                                                                        CMDBUF, CMDORAB+RAB$L_RBF
                                                                            MOVAB
                                                                            $PUT
                                                                                        RAB=CMDORAB, ERR=REPORT_ERROR
                                                                            BSBW
                               F114'
                                                                NO:
                                                                            RSB
```

C 6

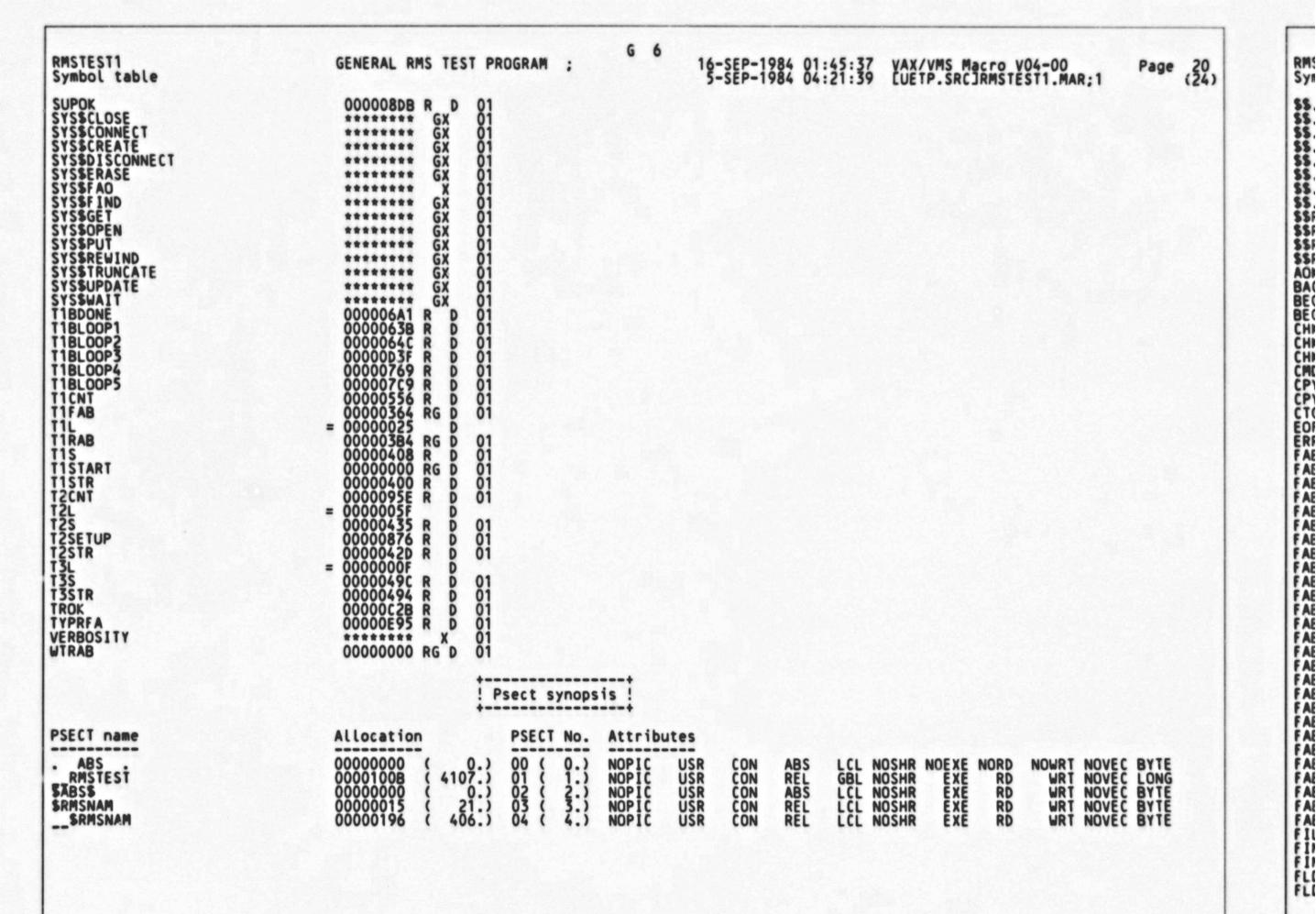
RM:

RMSTEST1 V04-000

```
16-SEP-1984 01:45:37 VAX/VMS Macro V04-00 
5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1
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				OF4C 732 OF4C 733 OF4C 734 OF4C 735	subr	outine t	o get and check a record	for test 2
57	50 F4A	7 CF 2A 57 30	7B 80	OF 53 738	GTCHK2:	ADDB	#42.RECCNT.RO.R7 #48.R7	; compute char
		F098'	30	OF56 740	GICHKZA	SCET	RAB=R11,ERR=REPORT_ERROR ERR CHKRFA	
	F48	09	30 00 01 12 20 12 05	0F65 741 0F68 742 0F6B 743 0F6F 744 0F74 745		BSBW BSBW MOVL CMPL BNEQ CMPC5	RAB\$L_RBF(R11),R2 (R2)+,RECCNT ERRREC #45,(R2),R7,#0,(SP)	; get rec addr ; reccnt o.k.?
6E	00 57	62 20	2D 12 05	OF76 746 OF7C 747 OF7E 748		RSB	EKKKEC	; match?
			05	OF 7F 749 OF A1 750 OF A9 751	ERRREC:	WFIELD MBPT RSB	<record contents=""></record>	
				OFA1 750 OFA9 751 OFAA 752 OFAA 753 OFAA 755 OFAA 756 OFAA 757 OFAA 758 OFAA 759 OFBO 760 OFB3 761 OFB7 762 OFBA 763 OFBD 764	subre the CHKMOD:	outine t preceedi	o verify that updated rec ng or following records	ords were changed but not
	F448 CF	5A 8F FF99 F441 CF 57 56 FF99	9A 30 D6 D0 30 D6 B1 13 30 A0	OFAA 755 OFAA 756 OFAA 757 OFAA 758 OFAA 759 OFBO 760 OFB3 761 OFB7 762 OFBA 763	CHKNXT:	MOVZBL BSBW INCL	#90,RECCNT GTCHK2 RECCNT R6,R7	; starting rec # ; check character
		F437 CF	30 06	OFBA 763 OFBD 764		MOVL BSBW INCL CMPW	GTCHKZA RECCNT	
	03E9 8F	F433 CF 0C FF7F	13 30	OFBD 764 OFC1 765 OFC8 766 OFCA 767 OFCD 768 OFD4 769		BEQL BSBW ADDW	RECCNT,#1001 10\$ GTCHK2	; all done?
	F424 CF	0063 8F	A0	OF CD 768 OF D4 769	100	BRB	GTCHK2 #99,RECCNT CHKNXT	
	0001827/	8F 50 01	D1 12 05	OFD6 770 OFDF 771 OFE6 772 OFE8 773	10\$:	SGET CMPL BNEQ RSB	R11 RO,#RMS\$_EOF 20\$	
		5A 58 F002 0400 8F	DD DO 30 BA 05	OFD6 770 OFDF 771 OFE6 772 OFE8 773 OFE9 774 OFE9 775 OFF6 776 OFF8 777 OFFB 778 OFFE 779 1002 780 100A 781 100B 782	20\$:	SWAIT PUSHL MOVL BSBW POPR MBPT RSB	RAB=CMDORAB R10 R11,R10 EOFPUT #^M <r10></r10>	: save it : bad structure!!!

RMSTEST1 Symbol table	GENERAL RMS TEST PROGRAM	; F 6 1	6-SEP-1984 01:45:37 VAX/VMS Macro V04-00 5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1	Page 19 (24
SS.PSECT_EP SS.TAB SS.TABEND SS.TMP SS.TMP1 SS.TMP2 SS.TMPX SS.TMPX SS.TMPX1 SSRMSTEST SSRMS_PBUGCHK	= 00000000 = 000003B4 R D 01 = 000003F8 R D 01 = 0000001 D = 000000EF = 00000187 R D 04 = 0000000F D	FABSM_CTG FARSM_GET FABSM_NAM FABSM_PUT FABSM_UPD FABSV_BLK FABSV_CHAN_MODE	= 00100000 D = 00000002 D = 01000000 D = 00000001 D = 00000008 D = 00000002 D	
SRMSTEST SRMS_PBUGCHK SRMS_TBUGCHK SRMS_UMODE ST2 .AFLG .FLG .MOD	= 00000378 R D 01 = 00000001 D = 0000000F = 0000001E = 0000001E = 00000000 = 000000000 = 000000000 D = 000000000 D = 0000000000	FABSV_CHAN_MODE FABSV_CTG FABSV_CTG FABSV_FILE_MODE FABSV_GET FABSV_LNM_MODE FABSV_PUT FABSV_SUP FABSV_TRN FABSV_UPI FABSW_GBC FABSW_MRS FAOBUF FINPUT	= 00100000 D = 00000000 D = 01000000 D = 00000008 D = 00000002 D = 00000001 D = 00000014 D = 00000001 D = 00000001 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D	
LEN ADRBF ADRFA ADRHB ADRSZ	00000001 D 000000D7 R D 01 00000D92 R D 01 00000DA9 R D 01 00000DC0 R D 01	FABSW_GBC FABSW_MRS FAOBUF FINPUT FIN_DESCR FLDPUT FLD_DESCR GETANDCHK	******* X 01 ******* X 01 ******* X 01 ******* X 01	
EGPÜT EG_DESCR HKMOD HKNXT HKRC1 HKREC HKRFA	00000FAA R D 01 00000FBO R D 01 00000D65 R D 01 00000D5E R D 01 00000D5E R D 01	GTCHK2 GTCHK2A NAMBLK NO NXTRC2 NXTREC PASS2	00000D06 R D 01 00000F4C R D 01 00000F56 R D 01 ******** X 01 00000EC R D 01 0000091A R D 01 00000511 R D 01 00000D23 R D 01 = 0000001E D	
MDORAB PYBSZ PYBUF ONE ONT OF PUT RR	00000B9B R D 01 00000DEE R D 01	RABSB RAC	= 00000001 D	
RROR RRREC RRRFA AB\$B_FAC AB\$B_FNS AB\$B_FSZ AB\$B_RAT	00000DEF R D 01 00000F7F R D 01 00000F21 R D 01 = 00000016 = 0000003F D = 0000001F D = 00000017 = 000000017 = 000000000 D	RABSC-BID RABSC-BLN RABSC-KEY RABSC-KEY RABSC-SEQ RABSL-CTX RABSL-RBF RABSL-ROP RABSM-ASY RABSM-LOC RABSM-LOC RABSW-LOC RABSW-LOC RABSW-LOC RABSW-ISI RABSW-ISI RABSW-RFA RABSW-RFA RABSW-RSZ RECCNT	= 00000001 D = 00000002 D = 00000000 D = 00000018 D = 0000002C D = 00000004 D = 00000001 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D = 00000000 D	
RRRFA AB\$B_FAC AB\$B_FNS AB\$B_FSZ AB\$B_RAT AB\$B_RFM AB\$B_SHR AB\$C_BID AB\$C_BID AB\$C_BID AB\$C_FIX AB\$C_FIX AB\$C_FIX AB\$C_FFNA AB\$L_FOP AB\$L_CR	= 0000001F D = 00000017 D = 00000000 D = 00000001 D = 00000000 D = 00000000 D	REPORT ERROR	****** X 01	
AB\$L_ALQ AB\$L_FNA AB\$L_FOP AB\$L_STS AB\$M_CR	= 00000010 D = 0000002C D = 00000004 D = 00000008 D = 00000002 D	RFATBL RHBSW RMS\$_EOF RMS\$_SUPERSEDE RMT\$TEST_1A	00000044 R D 01 000004AB R D 01 = 0001827A D = 00010631 D 000004AC RG D 01	



RMSTEST1 VAX-11 Macro Run Statistics

GENERAL RMS TEST PROGRAM

16-SEP-1984 01:45:37 VAX/VMS Macro V04-00 5-SEP-1984 04:21:39 [UETP.SRC]RMSTEST1.MAR;1

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	38 133 376	00:00:00.07	00:00:00.55
Command processing Pass 1		00:00:17:01	00:00:35.60
Symbol table sort Pass 2 Symbol table output Psect synopsis o tput Cross-reference output Assembler run totals	138 18	00:00:00.74	00:00:01.42
Psect synopsis o Lput	18	00:00:00.13	00:00:00.17
Assembler run totals	707	00:00:00.00	00:00:00.00

The working set limit was 1650 pages.
86298 bytes (169 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 618 non-local and 34 local symbols.
783 source lines were read in Pass 1, producing 58 object records in Pass 2.
69 pages of virtual memory were used to define 50 macros.

Macro library statistics !

Macro library name Macros defined _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries) 36 36

1074 GETS were required to define 36 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:RMSTEST1/OBJ=OBJ\$:RMSTEST1 MSRC\$:RMSTEST1/UPDATE=(ENH\$:RMSTEST1)+EXECML\$/LIB

PSE ---

RMS Pse

SA

Pha Ini Con Pas Syn Pas Syn Pse Cro Ass

The 472 The 440

- S.

798 The

MA

0409 AH-BT13A-SE

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